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imagery analysis report

SA-11 Tactical Defensive SAM System Test Program, Emba Missile Test Center USSR

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	CTICAL DEFENSIVE SAM SYSTEM TEST PROGRAM, MBA MISSILE TEST CENTER, USSR	25X1
	SUMMARY	
Test Center is was not yet ready for deployment test and training facilities, it and deployed in two distinct processes of the control of the	nalysis of the SA-11 research and development program at the Emba Missile in the USSR revealed that the complete SA-11 system,* as of February 1980, nent. Based on the observation of specific pieces of equipment and the use of appears that the SA-11 system is being developed along two separate lines obases. One design line resulted in an interim enhancement of the older SA-6 d the other will produce an improved follow-on to replace the SA-6 system. The three-missile SA-11 transporter-erector-launcher-and-radar (TELAR; Fig-GAINFUL missile, modified SA-6 GAINFUL missile, or the SA-11 missile the TELAR was deployed into existing SA-6 regiments resulting in a mixed chase of SA-11 development was achieved in December 1979 when the three-ployed to the SA-6 regiment housed at Leninakan Army Barracks North AL er phase, the four-missile SA-11 TELAR (Figure 2), the SA-11 missile, the	25X1 25X1 25X1
EM-EL-03 radar, and unique	support equipment designed for the SA-11 system will be deployed to form a probably be in the 1982-1983 timeframe before this latter deployment	
occurs.	DESCRIPTION	
Development of the SA-11	System	
early as June 1972; however, April 1973, a prototype of the three-missile TELAR at launch developmental emphasis on the	begun on the design of the three- and four-missile versions of the SA-11 as major emphasis was placed on the three-missile version at that time. By the three-missile TELAR had been produced. The first observation of the marea A of the Emba Missile Test Center occurred during 1974. Due to the net three-missile TELAR, work was not started on the four-missile TELAR	25X1
was seen at pad A-2, the prin	FELAR was not observed in launch area A when it nary research and development pad for the SA-11 TELAR. From 1974 until AR in several different developmental models was tested at pad A-2. From	25 <b>X</b> 1
was initially brought to Emb	pad A-2 was vacant. During this period, the four-missile TELAR a for testing. This five-month period may represent a break in the SA-11 when emphasis was shifted from the three-missile TELAR to the four-	25 <b>X</b> 1
number of other events occur	preceding and subsequent to the first sighting of the four-missile TELAR, a red at Emba which can be linked to the start of testing of the four-missile are related to the developmental testing of the four-missile SA-11 TELAR	25 <b>X</b> 1
Date I	Event	
April 1976	First sighting of SA-11 calibration vehicle	
October 1976 F	First sighting of SA-11 probable command vehicle	
February 1977 F	First sighting of four-missile SA-11 TELAR	
March 1977 F	First sighting of SA-11 probable resupply vehicle	
June 1977 F	First sighting of SA-11 transloader	
	tart of construction for two concrete hardstands in launch area A; these hardstands were later associated with the SA-11 transloader and SA-11 probable command vehicles	
October 1977 F	First sighting of two EM-EL-03 acquisition radars	
	Three-missile SA-11 TELAR moved to Emba Missile Test Center Operations Support Area to begin initial troop familiarization/training	25X1
equipment for the four-missile carriage-mounted calibration a	nent listed in the above table is being developed as support and radar TELAR. The early arrival of the SA-11 calibration vehicle, replacing a gun ntenna, occurred because the onboard radars for both the three- and fourthe same. The SA-11 calibration vehicle can probably be utilized by both	25X1
hree-missile TELAR was seen raining exercises at the SA-6	r 1977, while the four-missile TELAR remained at pad A-2 for testing, the in increasing numbers and frequency engaged in troop familiarization and system training and checkout area in the operations support area. Troop	25 <b>X</b> 1
The final design configuration of the acquisition radar, and three pieces of the acquisition radar, and three pieces of the acquisition radar, and three pieces of the acquisition of th	e SA-11 system includes a four-missile SA-11 TELAR carrying SA-11 missiles, the EM-EL-03 inique SA-11 support equipment.	
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